

SECTION 6

TEST CONDITION REQUIREMENTS FOR SunOS 4.1.3

6.1 TESTING ENVIRONMENT. Each of the DSRS-related COTS software products must be tested to verify that each was correctly installed and performs as required. Testing procedures will be outlined in TCRs (Test Condition Requirement) for each COTS software product. Appendix D outlines the TCR to be executed *after* Sun installation and prior to subsequent installations. Appendix E outlines the TCRs to be executed to verify the installation of the *run-time* COTS software products. Appendix F outlines the TCRs to be executed to verify the installation of the *development* COTS software products.

6.1.1 Saving TCR Output. The commands and steps executed for some of the TCRs can be saved into a file. This feature will allow the output for the TCR to be reviewed and is only available within a Command Tool window when running Open Windows. The file will contain the information stored in the buffer (temporary storage space). The buffer will include all the commands that were executed within the current Command Tool window. To save this information for each TCR, the following steps must be followed:

- a. To create the file, the third mouse button must be pressed when the pointer is located in the Command Tool window.
- b. Select **History** from the pop-up menu and then select **Store log as new file** from the History pull-down menu.
- c. When prompted, enter the filename and directory for the newly created file.

The software packages that are required to be loaded for each TCR are indicated in Table 6-I TCR Prerequisite Matrix.

6.2 COTS PRODUCT TESTING. This section contains the list of all identified DSRS related COTS support software products and the tests to be conducted for each to verify successful installation and configuration.

6.2.1 Pre-Installation Test Procedures. Before the installation, verification that the UNIX hardware is configured correctly and performs as required will be needed. The specific TCR no. DSRS-COTSP-001 exercises this facility and is outlined in Appendix D.

Refer to Section 6.1 for information on how to save the commands and output for this TCR to a file.

6.2.2 Test Procedures for Run-Time Environment COTS Support Software Packages. The following procedures will be utilized in testing those DSRS-related COTS support software packages which are necessary for installation of DSRS executable software to operate in a run-time environment.

Table 6-I. TCR Prerequisite Matrix for SunOS 4.1.3

Software	COTSP 001	COTSR 001	COTSR 002	COTSR 003	COTSR 004	COTSR 005	COTSR 006	COTSR 007	COTSR 008	COTSR 017	COTSD 001	COTSD 002	COTSD 003	COTSD 004	COTSD 005	COTSD 006
SunOS	•	•	•	•	•	•	•	•	•		•	•	•	•	•	•
Open Windows	•	•	•	•	•	•	•	•	•				•	•	•	
DSRS		•	•	•	•				•					•		
ICS OSF Motif			•	•										•		
ORACLE7 Server					•	•	•		•							•
ORACLE SQL*Plus					•	•										
ORACLE Pro*C																•
ORACLE SQL*Net							•									
Minerva MSQL RDBMS								•								
ORACLE PL/SQL									•							
GNU ANSI C Compiler											•					
SPARCompiler C++												•				
XVT-Power++													•			
XVT-Graphical Extentions															•	
freeWAIS										•						

6.2.2.1 Test Procedures for SunOS 4.1.3. Successful execution of TCR no. DSRS-COTSR-001 described in Appendix E will be deemed as verification that SunOS was correctly installed and performs as required.

6.2.2.2 Test Procedures for OpenWindows. Successful execution of TCR no. DSRS-COTSR-002 described in Appendix E will be deemed as verification that OpenWindows was correctly installed and performs as required.

6.2.2.3 Test Procedures for ICS OSF Motif . Successful execution of TCR no. DSRS-COTSR-003 described in Appendix E will be deemed as verification that ICS OSF Motif was correctly installed and performs as required.

6.2.2.4 Test Procedures for ORACLE7 Server (RDBMS). Successful execution of TCR no. DSRS-COTSR-004 and DSRS-COTSR-012 described in Appendix E which access the ORACLE RDBMS will be deemed as verification that ORACLE RDBMS was correctly installed and performs as required.

6.2.2.5 Test Procedures for ORACLE SQL*Plus. Successful execution of TCR no. DSRS-COTSR-005 described in Appendix E will be deemed as verification that SQL*Plus was correctly installed and performs as required.

6.2.2.6 Test Procedures for ORACLE SQL*Net for TCP/IP. Successful execution of TCR no. DSRS-COTSR-006 described in Appendix E will be deemed as verification that SQL*Net was correctly installed and performs as required.

6.2.2.7 Test Procedures for Minerva MSQL RDBMS. Successful execution of TCR no. DSRS-COTSR-007 described in Appendix E will be deemed as verification that the Minerva MSQL RDBMS was correctly installed and performs as required.

6.2.2.8 Test Procedures for ORACLE PL/SQL. Successful execution of TCR no. DSRS-COTSR-008 described in Appendix E will be deemed as verification that ORACLE PL/SQL was correctly installed and performs as required.

6.2.2.9 Test Procedures for freeWAIS. Successful execution of TCR no. DSRS-COTSR-017 described in Appendix E will be deemed as verification that freeWAIS was correctly installed and performs as required.

6.2.3 Test Procedures for Development Environment COTS Support Software Packages. The following procedures will be utilized in the installation and testing of those DSRS-related COTS Support software packages which are necessary for implementation of a development environment.

6.2.3.1 Test Procedures for GNU ANSI C Compiler. Successful execution of TCR no. DSRS-COTSD-001 described in Appendix F will be deemed as verification that the GNU ANSI C Compiler was correctly installed and performs as required.

6.2.3.2 Test Procedures for Sun SPARCompiler C++. Successful execution of TCR no. DSRS-COTSD-002 described in Appendix F will be deemed as verification that Sun SPARCompiler C++ was correctly installed and performs as required.

6.2.3.3 Test Procedures for XVT-Power++. Successful execution of TCR no. DSRS-COTSD-003 described in Appendix F will be deemed as verification that XVT-Power++ was correctly installed and performs as required.

6.2.3.4 Test Procedures for ICS OSF Motif. Successful execution of TCR no. DSRS-COTSD-004 described in Appendix F will be deemed as verification that ICS OSF Motif was correctly installed and performs as required.

6.2.3.5 Test Procedures for XVT-Graphical Extensions. Successful execution of TCR no. DSRS-COTSD-005 described in Appendix F will be deemed as verification that the XVT-Graphical Extensions was correctly installed and performs as required.

6.2.3.6 Test Procedures for ORACLE Pro*C. Successful execution of TCR no. DSRS-COTSD-006 (a compile of a C program with the extension **.pc**) described in Appendix F) will be deemed as verification that ORACLE Pro*C was correctly installed and performs as required.

6.2.4 Test Procedures After All COTS Support Software Packages are Installed. Once all of the DSRS-related COTS support software products are installed and have been individually tested in accordance with the TCRs provided in the Appendices, then all of the DSRS System Tests must be executed.